



flooré

Flooré warm water Underfloor heating

One of the thinnest systems available on the market
Suitable for new buildings and for renovation
Easy to install – DIY

The many advantages of underfloor heating

Our aim is to offer you the best possible underfloor heating solution

Investing in underfloor heating is a clever choice for many reasons. Water underfloor heating is flexible, economical, comfortable and safe. The flexibility lies in that you can connect the system to whichever heat source you have.

Above all, it gives you a pleasant thermal experience. Since the heat is supplied close to the flooring surface, the room is heated from the floors and upwards, making the heating process effective and efficient. We are happiest when our feet are warmer than our heads!

Without any radiators in the way, you can furnish the room just as you wish.

Underfloor heating made easy!

Flooré's thinnest underfloor heating panel means that the floor level need not be raised more than 13 mm. Because of this low extra height, the panels can be used in new buildings and also for renovation purposes.

Flooré panels can be installed over most existing floors without any need to dig up the old floor. There is no need for expensive and time consuming screeds. You can even set your new floor on top of the old one!

The Flooré underfloor heating panel is a patented Swedish product. It is a predecessor to another type which was developed in a project together with the Royal Institute of Technology (KTH, Stockholm) back in 1991. We can proudly say that Flooré has a long experience with underfloor heating system.





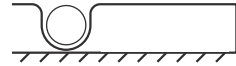
Lowest building height

The concept is based on thin panels made of high density polystyrene covered with aluminium foil. This design makes it possible to lay the flooring material directly on top of the panels. The panels emit heat more quickly and efficiently than traditional embedded systems because the distance between the pipe and floor surface is shorter and have lower thermal mass.

Flooré panel – for the lowest building height

THIS PANEL IS BEST SUITED FOR:

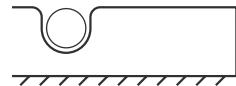
- Floors that already have sufficient thermal insulation
- Floors that do not need substantial thermal insulation, e.g. intermediate suspended floors above heated rooms
- Rooms where the height of the room cannot be reduced



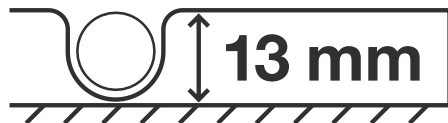
Flooré panel – with additional insulation

THIS PANEL IS BEST SUITED FOR:

- Floors that have none or insufficient thermal insulation
- Suspended floors where the room or space underneath is unheated
- Minimizing downward heat losses
- Slab on ground constructions, e.g. basement floors



Best of all, the floor level needs not be raised by more than 13 mm!



Requirements

The floor UNDERNEATH the heated floor

Flooré underfloor heating can be laid on all types of surface.

The only requirement is that the surface is plane, stable and load-bearing.

The floor ABOVE the heated floor

Flooré underfloor heating can be used underneath all types of flooring materials.

Wood, parquet or laminate can be set floating.

Stone and ceramic tile floors can be bonded directly onto the panels. The tile size must be at least 15x15 cm. In wet rooms, a thin layer of screed should be applied onto the panel before installing the surface material.

Detailed information is available at
www.floore.se or in our installation/user manuals

- 1 SURFACE MATERIAL
- 2 FLOORÉ PANEL
- 3 LOAD-BEARING FLOOR





Flooré Kit – A complete system

Do-It-Yourself!

The Flooré Kit comes in:

- 3 sizes: 6 m², 9 m² or 12 m²
- 3 panel thicknesses: 13 mm, 25 mm or 50 mm

Contents:

Underfloor heating panels, Multilayer pipe (12x1,6 mm), aluminum tape, and pipe fittings.



In addition to the Kit a pump and mixing unit is needed to circulate water. Flooré's FS 36 Shunt is a high quality pump and mixing unit supplied with a standard thermostat. This standard thermostat can be upgraded to a wireless thermostat. The FS 36 electric pump and mixing unit has both a wireless thermostat and electric heating for the summer comfort heating.

For large areas, a manifold will be needed to connect several loops to the pump and mixing unit, please see the table below.

Planeringstabell – Flooré Kit

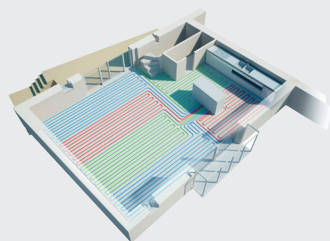
m ²	Uppsättning
1-6	6 m ² + 1 mixing unit
7-9	9 m ² + 1 mixing unit
10-12	12 m ² + 1 mixing unit
13-15	6 m ² + 9 m ² + 1 mixing unit + 1 double outlet manifold
16-18	9 m ² + 9 m ² + 1 mixing unit + 1 double outlet manifold
19-21	9 m ² + 12 m ² + 1 mixing unit + 1 double outlet manifold
22-24	12 m ² + 12 m ² + 1 mixing unit + 1 double outlet manifold
25-27	9 m ² + 9 m ² + 9 m ² + 1 mixing unit + 1 triple outlet manifold
28-30	9 m ² + 9 m ² + 12 m ² + 1 mixing unit + 1 triple outlet manifold
31-33	9 m ² + 12 m ² + 12 m ² + 1 mixing unit + 1 triple outlet manifold
34-36	12 m ² + 12 m ² + 12 m ² + 1 mixing unit + 1 triple outlet manifold
37-	Flooré Project – see next page

Flooré Project

All surfaces – all systems

We'll help you with your project!

For large installations, help is often needed with product selection, in calculating the quantities of materials needed, pipe layout and technical calculations such as design settings. Our technicians can help you with this!



The materials in a Flooré Project can consist of the following:

- Flooré panels
(Panels with 12 mm heating pipes are available in thicknesses of 13 mm, 25 mm and 50 mm. For 16 mm heating pipes the thickness of the panel can be 17 mm, 25 mm and 50 mm)
- Traditional embedded systems
(available for 12 mm, 16 mm and 20 mm heating pipes)
- Mixing unit of a suitable size
- Manifold with 2-10 outlets
- One or more room thermostats (wireless or wired)
- Pipe fittings
- Design drawing

Get in contact!

The first step is to contact one of our dealers with information about the floor areas and the requirements that the building has. We will help you with product selection, quantities and give you a quotation, free of charge!

FAQ

1. Can I place underfloor heating panels wherever I want in my house?

Yes, in bedrooms, bathrooms, in the kitchen and in hallways. It works well in any room. However, if thermal insulation of the building envelope that encloses the room is poor, in a conservatory for example, an additional heater may be needed.

2. Why should I choose warm water and not electric underfloor heating?

Warm water heating has a longer service life and is suitable for all heat sources. Today and in the future, the heat source can be selected on the basis of energy price and environmental impact.

3. Can the pipe start leaking?

No. After installing the pipe, a pressurization test should be performed to check if any damages have been caused during the installation. After that, you can then feel confident since the pipes have in accelerated tests proved to last well over 50 years.

4. How are Flooré panels fitted?

Normally, these are bonded to the subfloor with an adhesive. Screws or staples work if a floating flooring material is going to be used as top surface.

5. Can I really set tiles directly onto panels?

Yes, but you need to use products from suppliers that have approved the combination of their products and the Flooré panels, such as Mapei, Alfix, Kiilto, Casco, Weber or Schönox, and follow their instructions. In wet rooms, screed and a moisture barrier have to be applied above the panel prior to setting the tiles. However, when planning the use of tiles, it is always important that the substrate is stable and firm, so sagging suspended floors with wood beams may require stabilization.

6. Do I need a pump and mixing unit?

In most cases, a pump and mixing unit is needed when underfloor heating is to be used in combination with radiators. This unit lowers the temperature of the water in the pipes to a convenient level and sees to that the flow is sufficient. In buildings that do not have radiators, no extra pump and mixing unit is required since the convenient settings can be accomplished at the heat source.

7. Where can I buy Flooré's products?

Please see www.floore.se or contact us and we will help you find a retailer close to you.



flooré

SALES & SUPPORT

+46 10-221 64 00

HEAD OFFICE

Vildhussens väg 11

840 13 TORPSHAMMAR, SWEDEN

e-post: info@floore.se | offert@floore.se | order@floore.se

www.floore.se